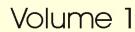
# Special East Tennessee Technology Park Water Sampling Report

DOE/ORO/ETTP--1





















November 3, 2000

Fare House	10-30-00
Steve Houser – East Tennessee Technology Park Manager of Projects	Date
Bechtel Jacobs Corporation	
ann	10 · 31 · 00
Community Reuse Organization of East Tennessee (CROET)	Date
On 1- Howell	10-30-00
J.W. Howell – Team Leader	
Department of Energy (DOE) Oak Ridge Operations (ORO), Technical Oversight and Implementation Division	Date
Norman Mulvenon	10/30/00
Norman Mulvenon - Chairman  Local Oversight Committee - Citizens Advisory Panel (LOC-CAP)	Date
Susan Kaplan – Vice Chairman	10/31/00 Date
Local Oversight Committee - Citizens Advisory Panel (LOC-CAP)	10/31/00
Henry Huffman - Project Director	Date
Operational Management International, Inc. (OMI) Oak Ridge	
John Steway	10-30-00
John Steward – ES&H Representative Local 5-288	Date
Paper, Allied-Industrial, Chemical, and Energy Workers International Union (PACE)	
Earl C. Some	10-30-02
Earl Leming - Director	Date
Tennessee Department of Environment and Conservation (TDEC),	
Department of Energy Oversight Division	

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#### **ACRONYMS**

BDL Below Detectable Limit

BJC Bechtel Jacobs Company LLC

Cl Chlorine CR Clinch River CRM Clinch River Mile

CROET Community Reuse Organization of East Tennessee

DOE Department of Energy

EPA Environmental Protection Agency
ESC Environmental Sciences Corporation
ETTP East Tennessee Technology Park

LOC-CAP Local Oversight Committee Citizens Advisory Panel

MCLs Maximum Contaminant Level

mf/L Million Fibers Per Liter

Neg. Negative (Bacteria Not Present)

OMI Operations Management International, Inc.

ORO Oak Ridge Operations

PACE Paper, Allied-Industrial, Chemical, and Energy Workers International

Union

pCi/L picoCuries Per Liter pg/L picograms Per Liter

Pos. Positive (Bacteria Present)

ppm Parts Per Million

psi Pounds Per Square Inch

SOC Synthetic Organic Compound

SPOT Sampling, Planning, and Oversight Team

TDEC Tennessee Department of Environment and Conservation

VOC Volatile Organic Compound

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#### 1.0 EXECUTIVE SUMMARY

Based on the results of the special water sampling and testing effort, the Department of Energy (DOE) and the Community Reuse Organization of East Tennessee (CROET) are happy to report the drinking water at the East Tennessee Technology Park (ETTP) is *safe to drink*. The purpose of this project was to determine the quality of the water at ETTP in response to ill workers concerns that the drinking water was contaminated.

This report provides the complete results of the project recently completed by the Sampling, Planning, and Oversight Team (SPOT), a first-of-its-kind team for DOE Oak Ridge Operations (ORO). These results were summarized in the Special Drinking Water Quality Report for the East Tennessee Technology Park (see Volume 2) issued on September 20, 2000. SPOT was comprised of representatives from Bechtel Jacobs Company LLC (BJC); CROET; DOE; Oak Ridge Reservation Local Oversight Committee Citizens Advisory Panel (LOC-CAP); Operations Management International, Inc. (OMI); Paper, Allied-Industrial, Chemical, and Energy Workers International Union (PACE); and the Tennessee Department of Environment and Conservation (TDEC). OMI, a professional private utility operations firm that operates drinking water systems throughout the world, operates the ETTP drinking water system under a contract with CROET. OMI employs State-certified operators to manage and operate the drinking water system.

This extensive one-time water sampling project confirmed there were no levels of contaminants in the drinking water that exceeded published Environmental Protection Agency (EPA) and/or State regulated levels. In addition to sampling the drinking (i.e., finished) water, SPOT also sampled the dedicated water supply for fire suppression activities (i.e., firewater) and the untreated water taken directly from the Clinch River (i.e., raw water). These non-drinking water systems were sampled to draw a correlation of their potential impact on the drinking water system if there were cross-connections<sup>1</sup> to the drinking water system.

Historically there have been some suspected and confirmed cases of cross-connections between the drinking water and the other water systems at the site. A review/walkdown of the site facilities is ongoing and, to date, no problems that pose a health threat have been found. Additionally, a plan is being developed to analyze the visible steam plumes. A detailed report on these activities will be made available upon their completion.

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<sup>&</sup>lt;sup>1</sup> Section 68-13-703(7) of the Tennessee Code Annotated defines a cross-connection as "...any physical arrangement whereby a public water supply is connected, directly or indirectly, with any other water supply system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture, or other waste or liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water supply as a result of backflow. Bypass arrangements, jumper connections, removable sections, swivel or changeover devices through which, or because of which, backflow could occur are considered to be cross-connections." Common cross-connection control methods are: air-gap, atmospheric vacuum breaker, Tennessee approved backflow prevention device, Tennessee approved check valve, double check valve assembly, internally loaded check valve, pressure vacuum breaker and reduced pressure principal backflow prevention device.

#### 2.0 Introduction

As a result of concerns expressed by ill workers at the July 31, 2000 public meeting held to present the findings of Drs. Lockey, Bird, and Freeman, SPOT was created to plan, manage, and oversee a sampling initiative. During this meeting, workers also called for the LOC-CAP to become involved and DOE officially invited them to participate.

### 3.0 PLANNING AND METHODOLOGY

Starting on August 1, 2000, numerous planning meetings were held prior to the actual sampling that took place August 8 through August 10. Participants in these meetings consisted of representatives from BJC, CROET, DOE, LOC-CAP, OMI, PACE, TDEC, and the ill workers. Representatives of the BJC, DOE, LOC-CAP, OMI, PACE, and TDEC were present during the entire Phase I effort consisting of planning, sampling, and data analysis for the raw water, drinking water, and firewater. Representatives of the ill workers attended the first two meetings, but declined to participate in any future meetings.

## 3.1 PLANNING

DOE held an internal planning meeting on August 1, 2000 to decide how to address the workers' concerns regarding contaminated drinking water and other pathways for exposure. Of paramount importance was determining, as quickly and as accurately as possible, if the drinking water at ETTP was currently safe to drink.

DOE held another meeting on August 2, 2000 attended by representatives of BJC, CROET, LOC-CAP, OMI, PACE, TDEC, and the ill workers. At this meeting, DOE proposed two tracks of investigation. Phase 1 was to be immediate sampling to evaluate whether the ETTP water supply is safe to drink. Phase 2 was to be a more exhaustive, long-term effort to determine if contaminants could have historically entered the drinking water. For Phase 1, DOE proposed that a team be formed consisting of representatives from BJC, CROET, DOE, LOC-CAP, OMI, PACE, TDEC, and ill workers. This team was to be responsible for developing and implementing a plan to sample and analyze the water for various contaminants.

SPOT convened August 2, 2000 and several more times through August 7, 2000 to develop a plan. The ill workers participated in the August 2, 2000 meeting and several sampling sites and analytes were added to the plan as a result of their input.

The final plan (see Volume 2) that was developed by SPOT called for samples to be collected and sent to State-certified laboratories for analysis. The radiological analyses were performed by the Lockheed Martin Analytical Laboratory at Y-12. The bacteriological testing was performed by the State's Public Health Laboratory in Knoxville, Tennessee. Environmental Sciences Corporation (ESC) in Mt. Juliet, Tennessee, performed the chemical analyses for inorganics, volatile organic compounds (VOCs) and synthetic organic compounds (SOCs).<sup>2</sup>

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<sup>&</sup>lt;sup>2</sup> ESC subcontracted several of the analyses for SOCs to other companies. These subcontractors are identified in the laboratory reports provided by ESC. Note that one cooler of samples shipped to a subcontractor's laboratory was temporarily misplaced by United Parcel Service. Because the cooler was not found until after the samples' expiration date, additional samples were collected by SPOT for analysis.

Samples were to be collected by the OMI water sampling personnel, with oversight by the other team members. It was agreed that all members were to be present as samples were collected and transferred to the laboratories' couriers. On Monday August 7, 2000, EPA participated in a conference call with the team and indicated they would take replicate samples.

#### 3.2 **SAMPLING**

Sampling was conducted between August 8, 2000 and August 22, 2000. Sampling was conducted according to *Standard Methods for the Examination of Water and Wastewater*<sup>3</sup>. All sample bottles and transportation containers were sealed with evidence tape by TDEC observers to maintain the chain of custody. In total, over 600 bottles were collected by the team and submitted for analysis at laboratories certified by the State of Tennessee. Table 1 lists the sampling site locations shown in Figure 1.

### 3.3 OVERSIGHT AND CONTROLS

To ensure the security and integrity of the samples, several oversight and control mechanisms were established. The following are the most notable: 1) LOC-CAP, PACE, and TDEC representatives were present as independent observers; 2) ESC provided a technician to support the sampling effort; 3) Labels were verified for correctness; 4) Tamper resistant tape was used to seal the samples and coolers; 5) Laboratory analyses were sent directly to LOC-CAP and PACE for independent review; and 6) EPA pulled replicate samples for analysis.

### 3.3.1 Independent Participants

At least one representative from LOC-CAP, PACE and TDEC was present during all sampling activities. In addition, the LOC-CAP and PACE representatives randomly selected the next sampling location when sampling at the previous location was completed. LOC-CAP and PACE representatives received test results directly from the laboratories as another control mechanism.

### 3.3.2 EPA Replicate Sampling

The EPA collected replicate samples at seven of the sites sampled by the SPOT team. Actual site selection and tests performed were at the EPA's discretion. EPA originally planned to obtain replicate samples at twelve sites, but reduced the number of samples to seven. EPA observed sampling on August 8, 2000 and began collecting samples on August 9, 2000. EPA completed sampling on August 11, 2000.

#### 4.0 RESULTS

The drinking water for the ETTP comes from the Drinking Water Treatment Plant (K-1515) located on Bear Creek Road. The plant pumps raw water from Clinch River Mile (CRM) 14.5. This section provides the detailed test results for bacteriological (see Table 2), chemical (VOCs, SOCs, and inorganics), and radiological testing for the raw water (see Tables 14-15), finished

Standard Methods 20<sup>th</sup> Edition, 1998, prepared and published jointly by American Public Health Association, American Waterworks Association, Water Environment Association.

water from the treatment plant, and 18 other drinking water locations (see Tables 3-8) and 6 firewater sites (see Tables 9-13) from the distribution systems at ETTP.

### 4.1 **Drinking Water**

There were no exceedences of primary Maximum Contaminant Levels (MCLs) contained in Federal and State drinking water regulations, and the drinking water meets all Federal and State requirements. The secondary MCLs for iron and manganese were exceeded at one of the drinking water locations. Secondary MCLs are not based on health considerations, but are related to aesthetic properties of water, including taste, odor, and staining of laundry and plumbing fixtures.

Five bacteriological samples tested positive for total coliform. Following best management practices, three additional samples were collected for each one that tested positive. One sample was collected at the original location, one was collected upstream, and one was collected downstream, resulting in a total of 15 additional samples. All of these additional samples tested negative for total coliform. It is because of the resampling that Table 2 reflects five total coliform detects out of 34 samples, rather than the 19 samples shown for the rest of the analytes.

#### 4.2 FIREWATER

Firewater results are provided in Tables 9-13. The firewater reservoirs are supplied by the drinking water system, separated by an air-gap for cross-connection control. The average static (steady state) system pressure is 150 pounds per square inch (psi). The ETTP firewater system is a dedicated fire suppression system comprised of a pump station with two ground storage reservoirs where water is drawn by the pumps and delivered to two elevated storage facilities with a combined capacity of 700,000 gallons.

### 4.3 RAW WATER

Tables 14 and 15 provide the test results for the raw water. The Drinking Water Treatment Plant (K-1515) treats raw water from Clinch River Mile (CRM) 14.5. The plant is a typical water treatment facility utilizing coagulation, flocculation, sedimentation, filtration, disinfection and corrosion control. It treats an annual average of 1.052 million gallons per day. Average drinking water system pressures throughout the ETTP are 65 psi as compared to 150 psi for the firewater system. According to the State of Tennessee, the Clinch River supports its designated use as a drinking water source.

#### 5.0 DISCUSSION

The results from this water-sampling project confirmed there were no levels of contaminants in the drinking water at the time of sampling that exceeded EPA and/or State regulated levels. There have been some suspected and confirmed historical cases of cross-connections between the drinking water system and other water systems at the site. A review/walkdown of the site facilities is ongoing and, to date, no problems that pose a health threat have been found. In addition, DOE is developing a plan to analyze the visible steam plumes. A detailed report will be available upon completion of the Phase 2 activities.

Chemical and radiological analyses are routinely performed on the finished water from the treatment plant as required by the State of Tennessee and the EPA. The State also requires monthly testing for bacteria and chlorine at the treatment plant and from four locations within the distribution system (i.e., "at the tap"). These samples are analyzed at the State's Public Health Laboratory in Knoxville, Tennessee. OMI voluntarily collects an additional 26 non-regulatory samples per month from the distribution system and performs bacteria and chlorine analyses in a non-certified on-site laboratory. Historical compliance records, including other parameters not evaluated under this project, are available from the State of Tennessee.

### 5.1 USE OF DOE-AFFILIATED WORKERS

Concerns were expressed that DOE might compromise sample and results integrity. The team reviewed these concerns and found no evidence that sample integrity or results were compromised. See Section 3.3 Oversight and Controls for topics reviewed.

### 5.2 **System Flushing**

A review was performed of the concern expressed that flushing of lines before sample collection would lower the levels of contaminants in the samples. The *Standard Methods for the Examination of Water and Wastewater*<sup>4</sup> (Section 1060A) call for flushing the lines with three to five pipe volumes (or until water is being drawn from the main source) to ensure the sample is representative of the supply, taking into account the volume of pipe to be flushed and the flow velocity, when collecting samples from distribution systems. If the distribution system volume is unavailable, the procedure calls for flushing with the tap fully open for at least two to three minutes before sampling. The only exceptions are when sampling for lead or when information on areas of reduced or restricted flow is desired. No other non-routine flushing of the drinking water supply system was performed. All non-emergency repairs that would involve flushing of the drinking water were suspended during the drinking water supply sampling. In addition, monthly operating reports for the water treatment plant were provided as evidence that no unusual water usage occurred.

<sup>&</sup>lt;sup>4</sup> Standard Methods 20<sup>th</sup> Edition, 1998, prepared and published jointly by American Public Health Association, American Waterworks Association, Water Environment Association.

# 6.0 TABLES AND FIGURES

**Table 1. Locations of ETTP Water Sampling** 

	Drinking Water Sites	
LOCATION	DESCRIPTION	STATUS
K-33	Gaseous Diffusion Process Building	Occupied
K-601	Gaseous Diffusion Tails Withdrawal Facility	Occupied
K-1002	Cafeteria	Occupied
K-1004C	Laboratory Facility	Not Occupied
K-1004D	Laboratory Facility	Occupied
K-1004J	Laboratory Facility	Occupied
K-1004L	Laboratory Facility	Occupied
K-1007	Laboratory Facility	Occupied
K-1008A	Change House	Occupied
K-1037	Maintenance Building	Occupied
K-1101	Air Plant	Occupied
K-1310CW	Change Facility, Trailer	Occupied
K-1401	Maintenance Facility	Occupied
K-1423	Waste Staging / Processing Facility	Occupied
K-1435	TSCA Facility	Occupied
K-1501	Steam Plant	Occupied
K-1515	Drinking Water Treatment Plant	Occupied
K-1580	Department of Energy Site Office	Occupied
K-1600	Gaseous Centrifuge	Occupied

	FIREWATER SITES										
LOCATION	DESCRIPTION	STATUS									
AAH-11 Hydrant	Located next to Steam Plant	Active									
D-4 Hydrant	Located next to K-1006	Active									
F-3 Hydrant	Located next to K-1004J	Active									
K-16 Hydrant	Located inside of K-25 Bldg. "U"	Active									
K-802	Firewater Pump Station	Active									
K-1206	Firewater Storage Tank ("Checkerboard" tank)	Active									

	Raw Water Site	
LOCATION	DESCRIPTION	STATUS
K-1515	Drinking Water Treatment Plant	Active

**Figure 1. Sampling Locations** K-25 SITE 0 ED-1 SITE INSET A INSET B **LEGEND** FIRE WATER SAMPLE AREAS SANITARY WATER SAMPLE AREAS K-1654 RIFLE RANGE AREA RAW WATER SAMPLE AREA K-1515 SITE **INSET D** 

Table 2. Results of Bacteriological and Free Chlorine Residual Testing of Drinking Water Samples

			D	RINKING	WATER	RESULTS	3			
INITIAL	RESUL	TS			Re-	SAMPLIN	G RESUL	.TS		
LOCATION BAC	Васті	Cl	UPSTR	ЕАМ LOCAT	TION	Orig Loca		Downst	REAM LOCA	ATION
			LOCATION	Васті	Cl	Васті	Cl	LOCATION	Васті	Cl
K-33	Pos.	1.2	K-1101	Neg.	1.1	Neg.	1.0	K-716	Neg.	0.3
K-601	Neg.	1.6								
K-1002	Neg.	1.8								
K-1004C	Neg.	1.1								
K-1004D	Neg.	1.1								
K-1004J	Neg.	0.9								
K-1004L	Neg.	0.8								
K-1007	Pos.	0.8	K-1652	Neg.	0.9	Neg.	0.8	K-1001	Neg.	0.6
K-1008A	Pos.	1.1	K-1020	Neg.	1.4	Neg.	0.5	K-1401	Neg.	1.3
K-1037	Neg.	1.1								
K-1101	Neg.	1.6								
K-1310CW	Pos.	1.2	K-1515	Neg.	2.1	Neg.	0.8	K-9714	Neg.	0.9
K-1401	Neg.	1.6								
K-1423	Neg.	1.2								
K-1435	Pos.	0.8	K-1037	Neg.	0.9	Neg.	0.5	K-1430	Neg.	0.7
K-1501	Neg.	0.7								
K-1515	Neg.	1.8								
K-1580	Neg.	1.6								
K-1600	Neg.	1.0								

FIREWATER RESULTS											
LOCATION	TOTAL COLIFORM	E. Coli	CI								
AAH-11	1553	>1	0.0								
D-4	980	>1	0.0								
F-3	488	>1	0.0								
K-1206	2419	3	0.0								
K-16	2500	>1	0.0								
K-802	517	>1	0.0								

RAW WATER RESULTS										
LOCATION	TOTAL COLIFORM	E. Coli	CI							
K-1515	649	4	0.0							

1. Bacti = Bacteriological Sample Result Neg. = Bacteria Not Present Pos. = Bacteria Present

2. Cl = Free Chlorine Residual measured as Parts Per Million.

Notes:

3. Results of Firewater and Raw Water analysis are shown as actual bacterial counts rather than positive or negative. These water systems are non-drinking water and would reasonably be expected to have bacteria present.

**Table 3. Results of Inorganic Compounds Analysis of Drinking Water Samples** 

Analyte	K-1501	K-1515	K-1580		K-1004-L		K-1007	K-1101	K-1002	K-601	K-1008-A
Nitrate	0.61	0.62	0.62	0.61	0.62	0.62	0.62	0.63	0.64	0.62	0.62
Nitrite	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium	0.040	0.038	0.039	0.038	0.040	0.039	0.039	0.041	0.042	0.042	0.040
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	BDL	0.0026	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cyanide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoride	0.23	0.23	0.23	0.24	0.24	0.24	0.23	0.24	0.24	0.23	0.22
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Thallium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aluminum	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	13	13	13	13	13	13	13	13	13	13	12
Copper	BDL	BDL	BDL	BDL	0.056	BDL	BDL	BDL	BDL	BDL	BDL
Iron	0.066	0.042	0.036	0.021	0.034	0.092	0.16	BDL	BDL	BDL	0.076
Manganese	BDL	BDL	BDL	BDL	BDL	BDL	0.010	BDL	BDL	BDL	BDL
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	31	29	31	30	30	30	30	31	31	30	30
MBAS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	0.18	BDL	0.18	0.29	0.025	0.37	0.64	0.13	0.088	0.16	0.52
Color	1	1	1	1	1	1	1	1	1	1	1
Odor	1	1	1	1	1	1	1	1	1	1	1
Lead	BDL	BDL	BDL	BDL	BDL	BDL	0.0011	BDL	BDL	BDL	BDL
Dissolved Solids	160	160	160	170	160	160	160	150	160	160	190
Sodium	7.3	7.9	7.7	7.4	7.6	7.5	7.6	8.0	7.9	7.9	7.8

Notes:

2. **BDL** = None detected above quantifiable limits of current analytical method.

<sup>1.</sup> All units are in Parts Per Million (ppm) unless otherwise noted.

Table 3. Results of Inorganic Compounds Analysis of Drinking Water Samples (continued)

ANALYTE	K-1435	K-33	K-1600	K-1037		K-1310-CW		T	AVERAGE	Махімим	MINIMUM
Nitrate	0.61	0.62	0.62	0.61	0.61	0.60	0.62	BDL	0.62	0.64	BDL
Nitrite	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium	0.042	0.042	0.042	0.042	0.041	0.046	0.041	0.049	0.041	0.049	0.038
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0026	0.0026	BDL
Cyanide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoride	0.22	0.22	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.24	0.21
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Thallium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aluminum	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	13	13	13	12	12	13	12	14	13	14	12
Copper	BDL	0.010	BDL	BDL	BDL	0.15	BDL	BDL	0.072	0.15	BDL
Iron	0.18	BDL	0.028	0.19	0.022	BDL	0.020	0.88	0.13	0.88	BDL
Manganese	0.012	BDL	BDL	0.012	BDL	BDL	BDL	0.18	0.054	0.18	BDL
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	30	30	30	30	30	31	30	28	30	31	28
MBAS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	0.46	0.10	0.39	0.37	0.18	0.023	0.24	0.056	0.25	0.64	BDL
Color	1	1	1	1	1	1	1	1	1	1	1
Odor	1	1	1	1	1	1	1	1	1	1	1
Lead	BDL	BDL	BDL	0.0016	BDL	BDL	BDL	BDL	0.0014	0.0016	BDL
Dissolved Solids	180	180	180	180	200	190	180	180	172	200	150
Sodium	7.9	7.6	7.8	7.8	7.9	7.9	8.0	7.9	7.8	8.0	7.3

- 1. All units are in Parts Per Million (ppm) unless otherwise noted.
- 2. **BDL** = None detected above quantifiable limits of current analytical method.
- 3. The "Average" column represents the average of detections at each named location for the individual analytes.

Table 4. Results of Radiological Analysis of Drinking Water Samples

ANALYTE	K-1501	K-1515	K-1580	K-1004-D	K-1004-L	K-1004-J	K-1007	K-1101	K-1002	K-601	K-1423
Total Uranium, Alpha Activity	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-234	0.11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-235	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-236	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-238	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.060	BDL	BDL
Cesium 137	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ruthenium-106	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Gross Alpha	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Gross Beta	2.2	2.9	3.3	2.5	BDL	2.2	BDL	2.4	2.2	2.7	BDL
Strontium 89	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Strontium 90	BDL	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Technetium-99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL	BDL

ANALYTE	K-1037	K-1435	K-1004-C	K-1310-CW	K-33	K-1008-A	K-1401	K-1600	AVERAGE	MAXIMUM	MINIMUM
Total Uranium, Alpha Activity	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-234	BDL	BDL	BDL	BDL	BDL	0.20	BDL	BDL	0.16	0.20	BDL
Uranium-235	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-236	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-238	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.068	0.064	0.068	BDL
Cesium 137	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ruthenium-106	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Gross Alpha	BDL	BDL	BDL	BDL	BDL	0.61	BDL	BDL	0.61	0.61	BDL
Gross Beta	2.2	BDL	2.7	BDL	BDL	2.9	2.5	3.3	2.6	3.3	BDL
Strontium 89	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Strontium 90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	1.8	BDL
Technetium-99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	13	BDL

- 1. All units are in picoCuries per Liter (pCi/L), unless otherwise noted.
- 2. **BDL** = Result was below Minimum Detectable Amount.
- 3. The "Average" column represents the average of detections at each named location for the individual analyte.
- 4. The actual measured result for Tc-99 was 12.6 pCi/L with a detection level of 12.7 pCi/L (i.e., non-detected or BDL). The results were rounded by the laboratory to two (2) significant figures (i.e., 13 pCi/L for both results and detection level).

Table 5. Results of Regulated Volatile Organic Compounds (VOCs) Analysis of Drinking Water Samples

ANALYTE	K-1501	K-1515	K-1580	K-1004-D	K-1004-L	K-1004-J	K-1007	K-1002	K-601	K-1008-A	K-1004-C
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes, Total	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene chloride	BDL	BDL	BDL	BDL	0.0011	BDL	BDL	BDL	BDL	BDL	0.0013
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
A											
ANALYTE	K-1423	K-1310-CW	K-1401	K-1101	K-1037	K-1600	K-33	K-1435	AVERAGE	MAXIMUM	MINIMUM
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL	BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride	BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene	BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene 1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,1,2-Trichloroethane Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichlorobenzene cis-1,2-Dichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,1,2-Trichloroethane Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride 1,2,4-Trichloroethene Xylenes, Total Methylene chloride 1,2-Dichlorobenzene trans-1,2-Dichloroethene 1,2-Dichloropthene 1,2-Dichloropthene 1,2-Dichloropthene 1,2-Dichloropthene 1,2-Dichloropthene 1,1,2-Trichloroethene Tetrachloroethene Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

- All units are in Parts Per Million (ppm), unless otherwise noted. **BDL** = None detected above quantifiable limits of current analytical method.

The "Average" column represents the average of detections at each named location for the individual analyte.

Table 6. Results of Unregulated Volatile Organic Compounds (VOCs) Analysis of Drinking Water Samples

ANALYTE	K-1501	K-1515	K-1580	K-1004-D	K-1004-L	K-1004-J	K-1007	K-1002	K-601	K-1008-A	K-1004-C
Bromobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.0097	0.0087	0.0096	0.0094	0.0050	0.0098	0.0069	0.0060	0.014	0.013	0.0065
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorodibromomethane	0.0010	0.00091	0.0010	0.0010	0.00054	0.0011	BDL	BDL	0.0014	0.0014	0.0010
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.066	0.048	0.065	0.063	0.038	0.068	0.060	0.049	0.064	0.052	0.065
Chloromethane	0.00068	0.00074	0.00056	0.00060	0.00059	0.00060	BDL	BDL	BDL	BDL	BDL
2-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorotoulene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,5 Triemoropropune	DDL	DDL	DDL	DDL	DDL	DDL	սոր	DDL	DDL	DDL	DDL
ANALYTE	K-1423	K-1310-CW	K-1401	K-1101	K-1037	K-1600	K-33	K-1435	AVERAGE		
ANALYTE Bromobenzene	K-1423 BDL	K-1310-CW BDL	<b>K-1401</b> BDL	<b>K-1101</b> BDL	K-1037 BDL	<b>K-1600</b> BDL	K-33 BDL	K-1435 BDL	AVERAGE BDL	MAXIMUM BDL	MINIMUM BDL
ANALYTE	<b>K-1423 BDL</b> 0.013	<b>K-1310-CW BDL</b> 0.016	<b>K-1401 BDL</b> 0.014	<b>K-1101 BDL</b> 0.012	K-1037 BDL 0.014	<b>K-1600 BDL</b> 0.014	<b>K-33 BDL</b> 0.017	<b>K-1435 BDL</b> 0.014	AVERAGE BDL 0.011	MAXIMUM BDL 0.017	MINIMUM BDL 0.0050
ANALYTE Bromobenzene	K-1423 BDL 0.013 BDL	K-1310-CW BDL 0.016 BDL	K-1401 BDL 0.014 BDL	K-1101 BDL 0.012 BDL	K-1037 BDL 0.014 BDL	K-1600 BDL 0.014 BDL	K-33 BDL 0.017 BDL	K-1435 BDL 0.014 BDL	AVERAGE BDL 0.011 BDL	MAXIMUM BDL 0.017 BDL	MINIMUM BDL 0.0050 BDL
ANALYTE Bromobenzene Bromodichloromethane	K-1423 BDL 0.013 BDL BDL	K-1310-CW BDL 0.016 BDL BDL	K-1401 BDL 0.014 BDL BDL	K-1101 BDL 0.012 BDL BDL BDL	K-1037 BDL 0.014 BDL BDL	K-1600 BDL 0.014 BDL BDL	K-33 BDL 0.017 BDL BDL	K-1435 BDL 0.014 BDL BDL	AVERAGE BDL 0.011 BDL BDL	MAXIMUM BDL 0.017 BDL BDL	MINIMUM BDL 0.0050 BDL BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane	K-1423 BDL 0.013 BDL BDL 0.0013	K-1310-CW BDL 0.016 BDL BDL 0.0016	K-1401 BDL 0.014 BDL BDL 0.0014	K-1101 BDL 0.012 BDL BDL 0.0013	K-1037 BDL 0.014 BDL BDL 0.0015	K-1600 BDL 0.014 BDL BDL 0.0015	K-33 BDL 0.017 BDL BDL 0.0018	K-1435 BDL 0.014 BDL BDL 0.0015	### AVERAGE    BDL	MAXIMUM BDL 0.017 BDL BDL 0.0018	MINIMUM BDL 0.0050 BDL BDL BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane	K-1423 BDL 0.013 BDL BDL 0.0013 BDL	K-1310-CW BDL 0.016 BDL BDL 0.0016 BDL	K-1401 BDL 0.014 BDL BDL 0.0014 BDL	K-1101 BDL 0.012 BDL BDL 0.0013	K-1037 BDL 0.014 BDL BDL 0.0015 BDL	K-1600 BDL 0.014 BDL BDL 0.0015 BDL	K-33 BDL 0.017 BDL BDL 0.0018	K-1435 BDL 0.014 BDL BDL 0.0015 BDL	AVERAGE BDL 0.011 BDL BDL 0.0013 BDL	MAXIMUM BDL 0.017 BDL BDL 0.0018 BDL	MINIMUM BDL 0.0050 BDL BDL BDL BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088	K-1401 BDL 0.014 BDL 0.0014 BDL 0.0014 BDL 0.060	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060	K-1037 BDL 0.014 BDL BDL 0.0015 BDL 0.062	K-1600 BDL 0.014 BDL BDL 0.0015 BDL 0.061	K-33 BDL 0.017 BDL BDL 0.0018 BDL 0.080	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063	AVERAGE BDL 0.011 BDL BDL 0.0013 BDL 0.062	MAXIMUM BDL 0.017 BDL BDL 0.0018 BDL 0.088	MINIMUM BDL 0.0050 BDL BDL BDL BDL 0.038
Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloroform Chloroform	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060 BDL	K-1037 BDL 0.014 BDL BDL 0.0015 BDL 0.062 BDL	K-1600 BDL 0.014 BDL BDL 0.0015 BDL 0.061 BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063	MAXIMUM BDL 0.017 BDL BDL 0.0018 BDL 0.088 0.00074	MINIMUM BDL 0.0050 BDL BDL BDL BDL BDL BDL BDL BDL
Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059 BDL BDL BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL BDL BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101 BDL 0.012 BDL BDL 0.0013 BDL 0.060 BDL BDL BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL BDL	K-1600 BDL 0.014 BDL 0.0015 BDL 0.061 BDL	K-33 BDL 0.017 BDL BDL 0.0018 BDL 0.080 BDL BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL	MAXIMUM BDL 0.017 BDL BDL 0.0018 BDL 0.088 0.00074 BDL	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL BDL BDL
Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloroform Chloroform	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059 BDL BDL BDL BDL BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL BDL BDL BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL BDL	K-1101 BDL 0.012 BDL BDL 0.0013 BDL 0.060 BDL BDL BDL BDL BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL BDL BDL BDL	K-1600	K-33 BDL 0.017 BDL BDL 0.0018 BDL 0.080 BDL BDL BDL BDL	K-1435 BDL 0.014 BDL BDL 0.0015 BDL 0.063 BDL BDL BDL BDL	AVERAGE BDL 0.011 BDL BDL 0.0013 BDL 0.062 0.00063 BDL BDL BDL	MAXIMUM   BDL   0.017   BDL   BDL   0.0018   BDL   0.088   0.00074   BDL   B	MINIMUM BDL 0.0050 BDL BDL BDL BDL BDL 0.038 BDL BDL BDL BDL BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoulene Dibromomethane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059 BDL BDL BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL BDL BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.0014 BDL 0.060 0.00061 BDL BDL BDL BDL	K-1101 BDL 0.012 BDL BDL 0.0013 BDL 0.060 BDL BDL BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL BDL	K-1600 BDL 0.014 BDL 0.0015 BDL 0.061 BDL	K-33 BDL 0.017 BDL BDL 0.0018 BDL 0.080 BDL BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL	MAXIMUM BDL 0.017 BDL BDL 0.0018 BDL 0.088 0.00074 BDL	MINIMUM BDL 0.0050 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromomethane Chlorodibromomethane Chloroform Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoulene Dibromomethane 1,3-Dichlorobenzene	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0013 BDL 0.059 BDL BDL BDL BDL BDL BDL BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL BDL BDL BDL BDL BDL BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.00014 BDL 0.060 0.00061 BDL BDL BDL BDL BDL	K-1101  BDL 0.012  BDL 0.0013  BDL 0.060  BDL BDL BDL BDL BDL BDL BDL BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL BDL BDL BDL BDL BDL BDL BDL	K-1600  BDL 0.014  BDL 0.0015  BDL 0.061  BDL BDL BDL BDL BDL BDL BDL BDL BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL BDL BDL BDL BDL BDL BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL BDL BDL BDL BDL BDL BDL BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL BDL BDL BDL BDL BDL	Maximum	MINIMUM BDL 0.0050 BDL BDL BDL BDL 0.038 BDL BDL BDL BDL BDL BDL BDL BDL BDL
ANALYTE Bromobenzene Bromodichloromethane Bromomethane Chlorodibromomethane Chlorothane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoulene Dibromomethane 1,3-Dichlorobenzene 1,1-Dichloroethane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL BDL BDL BDL BDL BDL BDL BDL BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.00014 BDL 0.060 0.00061 BDL BDL BDL BDL BDL BDL BDL	K-1101  BDL 0.012  BDL 0.0013  BDL 0.060  BDL BDL BDL BDL BDL BDL BDL BDL BDL BD	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   0.061   BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL BDL BDL BDL BDL BDL BDL BDL BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL BDL BDL BDL BDL BDL BDL BDL	MAXIMUM   BDL   0.017   BDL   0.0018   BDL   0.0088   0.00074   BDL	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoulene Dibromomethane 1,3-Dichlorobenzene 1,1-Dichloroethane 1,3-Dichloropropane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060 BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   0.061   BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL	MAXIMUM   BDL   0.017   BDL   0.0018   BDL   0.088   0.00074   BDL   B	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,3-Dichloropropane 2,2-Dichloropropane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0016 BDL 0.088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060 BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   0.061   BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL	MAXIMUM	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoulene Dibromomethane 1,3-Dichlorobenzene 1,1-Dichloroethane 1,3-Dichloropropane	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0013 BDL 0.059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060 BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   BD	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	### AVERAGE  ### BDL  0.011  BDL  0.0013  BDL  0.062  0.00063  BDL  BDL  BDL  BDL  BDL  BDL  BDL  BD	MAXIMUM	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,3-Dichloropropane 2,2-Dichloropropane	K-1423   BDL   B	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101  BDL 0.012  BDL 0.0013  BDL 0.060  BDL BDL BDL BDL BDL BDL BDL BDL BDL BD	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   0.061   BDL	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435   BDL   B	AVERAGE BDL 0.011 BDL 0.0013 BDL 0.062 0.00063 BDL	MAXIMUM   BDL   0.017   BDL   BDL   0.0018   BDL   0.0088   0.00074   BDL	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL
ANALYTE Bromobenzene Bromodichloromethane Bromoform Bromomethane Chlorodibromomethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene	K-1423 BDL 0.013 BDL 0.0013 BDL 0.0013 BDL 0.059 BDL	K-1310-CW BDL 0.016 BDL 0.0016 BDL 0.0088 BDL	K-1401 BDL 0.014 BDL 0.0014 BDL 0.060 0.00061 BDL	K-1101 BDL 0.012 BDL 0.0013 BDL 0.060 BDL	K-1037 BDL 0.014 BDL 0.0015 BDL 0.062 BDL	K-1600   BDL   0.014   BDL   0.0015   BDL   BD	K-33 BDL 0.017 BDL 0.0018 BDL 0.080 BDL	K-1435 BDL 0.014 BDL 0.0015 BDL 0.063 BDL	### AVERAGE  ### BDL  0.011  BDL  0.0013  BDL  0.062  0.00063  BDL  BDL  BDL  BDL  BDL  BDL  BDL  BD	MAXIMUM	MINIMUM BDL 0.0050 BDL BDL BDL 0.038 BDL

Notes: 1. All units are in Parts Per Million (ppm), unless otherwise noted.

BDL

1,2,3-Trichloropropane

2. **BDL** = None detected above quantifiable limits of current analytical method.

BDL

3. The "Average" column represents the average of detections at each named location for the individual analyte.

**BDL** 

**BDL** 

**BDL** 

**BDL** 

**BDL** 

BDL

**BDL** 

**BDL** 

**BDL** 

Table 7. Results of Synthetic Organic Compounds (SOCs) Analysis of Drinking Water Samples

ANALYTE	K-1501	K-1515	K-1580	K-1004-D			K-1007	K-1002	K-601	K-1008-A	K-1004-C
Ashestos (mf/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor epoxide											
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lindane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methoxychlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Polychlorinated biphenyls	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toxaphene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Propachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-TP (Silvex)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2.4-D	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dalapon	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicamba	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dinoseb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Picloram	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3-Hydroxycarbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfoxide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbaryl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methomvl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endothall	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Alachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Atrazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diquat	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Simazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Glyphosate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Oxamyl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dioxin (pg/L)	BDL	BDL	BDL	BDL	BDL	5.7	BDL	0.90	BDL	BDL	BDL
Butachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metolachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metribuzin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethvlhexvl) adinate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

- All units are in Parts Per Million (ppm), unless otherwise noted.
   BDL = None detected above quantifiable limits of current analytical method.
   pg/L = picogram/Liter
   mf/L = million fibers/Liter

Table 7. Results of Synthetic Organic Compounds (SOCs) Analysis of Drinking Water Samples (continued)

Table 7. Results 0							1		1		M
ANALYTE	K-1423	K-1310-CW	K-1401	K-1101	K-1037	K-1600	K-33	K-1435	AVERAGE	MAXIMUM	MINIMUM
Asbestos (mf/L)	BDL	BDL	BDL	BDL	BDL	BDL	0.18	BDL	0.18	0.18	BDL
Chlordane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor epoxide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lindane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methoxychlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Polychlorinated biphenyls	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toxaphene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Propachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-TP (Silvex)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-D	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dalapon	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicamba	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dinoseb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Picloram	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3-Hydroxycarbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfoxide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbaryl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methomyl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endothall	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Alachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Atrazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diquat	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Simazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Glyphosate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Oxamyl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dioxin, (pg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9	3.2	5.7	BDL
Butachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metolachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metribuzin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethylhexyl) adipate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-chiyinexyi) pilinalate	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL

- All units are in Parts Per Million (ppm), unless otherwise noted. **BDL** = Non detected above quantifiable limits of current analytical methods.

  mf/L = million fibers/Liter
- pg/L = picograms/Liter
  The "Average" column represents the average of detections at each named location for the individual analyte.

Table 8. Results of Total Trihalomethanes Analysis of Drinking Water Samples

ANALYTE	K-1501	K-1515	K-1580	K-1004-D	K-1004-L	K-1004-J	K-1007	K-1002	K-601	K-1008-A
Bromodichloromethane	0.0097	0.0087	0.0096	0.0094	0.0050	0.0098	0.0069	0.0060	0.014	0.013
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorodibromomethane	0.0010	0.00091	0.0010	0.0010	0.00054	0.0011	BDL	BDL	0.0014	0.0014
Chloroform	0.066	0.048	0.065	0.063	0.038	0.068	0.063	0.049	0.064	0.052
Total	0.077	0.058	0.076	0.073	0.044	0.079	0.067	0.055	0.079	0.066

ANALYTE	K-1004-C	K-1423	K-1310-CW	K-1401	K-1101	K-1037	K-1600	K-33	K-1435
Bromodichloromethane	0.0065	0.013	0.016	0.014	0.012	0.014	0.014	0.017	0.014
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorodibromomethane	0.0010	0.0013	0.0016	0.0014	0.0013	0.0015	0.0015	0.0018	0.0015
Chloroform	0.065	0.059	0.088	0.060	0.060	0.062	0.061	0.080	0.063
Total	0.073	0.073	0.11	0.075	0.073	0.078	0.077	0.099	0.079

TOTAL TRIHALOMETHANES	AVERAGE	REGULATORY LIMIT
(all 19 sites)	0.073	0.100

Notes: 1. All units are in Parts Per Million (ppm), unless otherwise noted.

2. **BDL** = None detected above quantifiable limits of current analytical method.

3. For drinking water systems that are regulated for total trihalomethanes, the regulatory limit is 0.100 ppm. The ETTP drinking water system is not regulated for total trihalomethanes.

Table 9. Results of Regulated Volatile Organic Compounds (VOCs) Analysis of Firewater Samples

ANALYTE	AAH-11	D-4	F-3	K-1206	K-16	K-802	AVERAGE	MAXIMUM	MINIMUM
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes, Total	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene chloride	0.0014	0.0011	0.00085	BDL	BDL	BDL	0.0011	0.0014	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	0.0012	BDL	BDL	BDL	BDL	BDL	0.0012	0.0012	BDL
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

- 1. All units are in Parts Per Million (ppm), unless otherwise noted.
- 2. **BDL** = None detected above quantifiable limits of current analytical method.
- 3. Firewater is not regulated to drinking water standards.
- 4. The "Average" column represents the average of detections at each named location for the individual analyte.

Table 10. Results of Unregulated Volatile Organic Compounds (VOCs) Analysis of Firewater Samples

ANALYTE	AAH-1	D-4	F-3	K-1206	K-16	K-802	AVERAGE	MAXIMUM	MINIMUM
Bromobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.00093	0.00055	0.0021	BDL	0.0044	0.0030	0.0022	0.0044	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorodibromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.013	0.025	0.025	BDL	0.026	0.025	0.023	0.026	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorotoulene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

- 1. All units are in Parts Per Million (ppm), unless otherwise noted.
- 2. **BDL** = None detected above quantifiable limits of current analytical method.
- 3. Firewater is not regulated to drinking water standards.
- 4. The "Average" column represents the average of detections at each named location for the individual analyte.

Table 11. Results of Synthetic Organic Compounds (SOCs) Analysis of Firewater Samples

ANALYTE	AAH-11	D-4	F-3	K-1206	K-16	K-802	AVERAGE	MAXIMUM	MINIMUM
Asbestos	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor epoxide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lindane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methoxychlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Polychlorinated biphenyls	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toxaphene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Propachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-TP (Silvex)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-D	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dalapon	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicamba	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dinoseb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Picloram	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3-Hydroxycarbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldicarb sulfoxide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbaryl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methomyl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Endothall	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Alachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Atrazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diquat	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Simazine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbofuran	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Glyphosate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Oxamyl	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dioxin, (pg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Butachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metolachlor	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metribuzin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethylhexyl) adipate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di (2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	0.0011	0.0011	0.0011	BDL

- 1. All units are in Parts Per Million (ppm), unless otherwise noted
- 2. BDL = None detected above quantifiable limits of current analytical method
- 3. Firewater is not regulated to drinking water standards.
- 4. The "Average" column represents the average of detections at each named location for the individual analyte.

**Table 12. Results of Inorganic Compounds Analysis of Firewater Samples** 

Analyte	AAH-11	D-4	F-3	K-1206	K-16	K-802	AVERAGE	MAXIMUM	MINIMUM
Nitrate	0.49	0.51	0.51	0.56	BDL	0.55	0.52	0.56	BDL
Nitrite	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	0.0013	0.0012	0.0017	0.0012	0.0039	0.0017	0.0018	0.0039	0.0012
Barium	0.042	0.038	0.046	0.032	0.075	0.046	0.047	0.075	0.032
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	BDL	BDL	BDL	0.0063	0.020	0.0042	0.010	0.020	BDL
Cyanide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoride	0.25	0.24	0.24	0.23	0.24	0.25	0.24	0.25	0.23
Mercury	BDL	BDL	BDL	BDL	0.00040	BDL	0.00040	0.00040	BDL
Nickel	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Beryllium	0.00035	BDL	BDL	BDL	BDL	BDL	0.00035	0.00035	BDL
Thallium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aluminum	BDL	BDL	BDL	BDL	0.14	BDL	0.14	0.14	BDL
Chloride	14	13	14	13	14	14	14	14	13
Copper	BDL	BDL	0.016	BDL	0.063	0.017	0.032	0.063	BDL
Iron	0.20	0.12	2.7	BDL	6.5	0.43	1.99	6.5	BDL
Manganese	0.013	BDL	0.031	BDL	0.25	0.064	0.090	0.25	BDL
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	31	31	31	26	32	BDL	30	32	BDL
MBAS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	0.11	0.013	0.021	BDL	0.10	0.022	0.033	0.11	BDL
Color	1	1	>20	1	>20	1	7.3	>20	1
Odor	1	1	1	1	1	1	1	1	1
Lead	0.0015	BDL	0.0010	BDL	0.0040	BDL	0.0022	0.0040	BDL
Dissolved Solids	190	220	180	200	190	200	197	220	160
Sodium	7.5	7.6	8.1	6.8	8.1	8.1	7.7	8.1	7.3

- All units are in Parts Per Million (ppm), unless otherwise noted.
   BDL = None detected above quantifiable limits of current analytical method.
- 3. Firewater is not regulated to drinking water standards.
- 4. The "Average" column represents the average of detections at each named location for the individual analyte.

Table 13. Results of Radiological Analysis of Firewater Samples

ANALYTE	AAH-11	D-4	F-3	K-1206	K-16	K-802	AVERAGE	Махімим	MINIMUM
Total Uranium, Alpha Activity	0.30	BDL	0.64	0.42	0.97	BDL	0.58	0.97	BDL
Uranium-234	0.19	BDL	0.35	BDL	0.52	BDL	0.35	0.52	BDL
Uranium-235	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-236	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Uranium-238	BDL	BDL	0.26	0.18	0.49	BDL	0.31	0.49	BDL
Cesium 137	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ruthenium-106	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Gross Alpha	BDL	BDL	1	BDL	BDL	BDL	1	1	BDL
Gross Beta	4.0	3.7	3.6	4.5	4.3	5.6	4.3	5.6	3.6
Strontium 89	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Strontium 90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Technetium-99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

- 1. All units are in picoCuries per Liter (pCi/L), unless otherwise noted.
  - 2. **BDL** = Result was below Minimum Detectable Amount.
- 3. For radiological, location AAH-11 is reported as AA11-11 on the laboratory results sheet in Volume 2.
- 4. The "Average" column represents the average of detections at each named location for the individual analyte.

Table 14. Results of Chemical Analysis (VOCs, SOCs, Inorganics) of Raw Water Sample

ANALYTE (VOCS	RESULT	ANALYTE (SOCs)	RESULT	ANALYTE (INORGANICS)	RESULT
Benzene	BDL	Ashestos	BDL	Nitrate	0.67
Carbon tetrachloride	$\mathbf{BDL}$	Chlordane	BDL	Nitrite	BDL
1,4-Dichlorobenzene	$\mathbf{BDL}$	Endrin	BDL	Arsenic	BDL
1,2-Dichloroethane	$\mathbf{BDL}$	Heptachlor	BDL	Barium	0.043
1,1-Dichloroethene	$\mathbf{BDL}$	Heptachlor epoxide	BDL	Cadmium	BDL
1,1,1-Trichloroethane	$\mathbf{BDL}$	Hexachlorobenzene	BDL	Chromium	0.0020
Trichloroethene	BDL	Hexachlorocyclopentadiene	BDL	Cyanide	BDL
Vinyl chloride	BDL	Lindane	BDL	Fluoride	0.23
1,2,4-Trichlorobenzene	BDL	Methoxychlor	BDL	Mercury	BDL
cis-1,2-Dichloroethene	BDL	Polychlorinated biphenyls	BDL	Nickel	BDL
Xylenes, Total	BDL	Toxaphene	BDL	Selenium	BDL
Methylene chloride	0.00055	Aldrin	BDL	Antimony	BDL
1.2-Dichlorobenzene	BDL	Dieldrin	BDL	Beryllium	BDL
trans-1,2-Dichloroethene	BDL	Propachlor	BDL	Thallium	BDL
1,2-Dichloropropane	BDL	2,4,5-TP (Silvex)	BDL	Aluminum	0.37
1.1.2-Trichloroethane	BDL	2.4-D	BDL	Chloride	6.1
Tetrachloroethene	BDL	Dalapon	BDL	Copper	BDL
Chlorobenzene	BDL	Dicamba	BDL	Iron	0.13
Toluene	0.0014	Dinoseb	BDL	Manganese	0.043
Ethylbenzene	BDL	Pentachlorophenol	BDL	Silver	BDL
Styrene	BDL	Picloram	BDL	Sulfate	31
Bromobenzene	BDL	3-Hydroxycarbofuran	BDL	MBAS	BDL
Bromodichloromethane	BDL	Aldicarb	BDL	Zinc	0.021
Bromoform	BDL	Aldicarb sulfone	BDL	Color	1
Bromomethane	BDL	Aldicarb sulfoxide	BDL	Odor	1
Chlorodibromomethane	BDL	Carbaryl	BDL	Lead	BDL
Chloroethane	BDL	Methomyl	BDL	Dissolved Solids	170
Chloroform	BDL	Endothall	BDL	Sodium	7.9
Chloromethane	BDL	Alachlor	BDL	Sourann	7.2
2-Chlorotoluene	BDL	Atrazine	BDL		
4-Chlorotoulene	BDL	Diquat	BDL		
Dibromomethane	BDL	Simazine	BDL		
1.3-Dichlorobenzene	BDL	Carbofuran	BDL		
1.1-Dichloroethane	BDL	Glyphosate	BDL		
1.3-Dichloropropane	BDL	Oxamyl	BDL		
2,2-Dichloropropane	BDL	Dioxin (pg/L)	BDL		
1,1-Dichloropropene	BDL	Butachlor	BDL		
1.3-Dichloropropene	BDL	Metolachlor	BDL		
1.1.1.2-Tetrachloroethane	BDL	Metribuzin	BDL		
1,1,2,2-Tetrachloroethane	BDL	Benzo (a) pyrene	BDL		
1,2,3-Trichloropropane	BDL	Di (2-ethylhexyl) adipate	BDL	<del>- </del>	
1,2,5 111011010101010	DDL	Di (2-ethylhexyl) phthalate	BDL		

- 1. All units are in Parts Per Million (ppm), unless otherwise noted.
- 2. **BDL** = None detected above quantifiable limits of current analytical method.
- 3. Raw water is not regulated to drinking water standards.

Table 15. Results of Radiological Analysis of Raw Water Sample

ANALYTE	RESULT
Total Uranium, Alpha Activity	0.32
Uranium-234	0.2
Uranium-235	BDL
Uranium-236	BDL
Uranium-238	BDL
Cesium 137	BDL
Ruthenium-106	BDL
Gross Alpha	BDL
Gross Beta	2.7
Strontium 89	BDL
Strontium 90	BDL
Technetium-99	BDL

- 1. All units are in picoCuries per Liter (pCi/L), unless otherwise noted.
- 2. **BDL** = Result was below Minimum Detectable Amount.
- 3. Raw water is not regulated to drinking water standards.